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☐ 1: [Murata-Hori M, Suizu F, Iwasaki T, Kikuchi A, Hosoya H.](#) Related Articles, Links



ZIP kinase identified as a novel myosin regulatory light chain kinase in HeLa cells.

FEBS Lett. 1999 May 14;451(1):81-4.

PMID: 10356987 [PubMed - indexed for MEDLINE]

☐ 2: [Goeckeler ZM, Masaracchia RA, Zeng Q, Chew TL, Gallagher P, Wysolmerski RB.](#) Related Articles, Links



Phosphorylation of myosin light chain kinase by p21-activated kinase PAK2.

J Biol Chem. 2000 Jun 16;275(24):18366-74.

PMID: 10748018 [PubMed - indexed for MEDLINE]

☐ 3: [Davis HW, Crimmins DL, Thoma RS, Garcia JG.](#) Related Articles, Links



Phosphorylation of calmodulin in the first calcium-binding pocket by myosin light chain kinase.

Arch Biochem Biophys. 1996 Aug 1;332(1):101-9.

PMID: 8806714 [PubMed - indexed for MEDLINE]

☐ 4: [Komaba S, Hamao H, Murata-Hori M, Hosoya H.](#) Related Articles, Links



Identification of myosin II kinase from sea urchin eggs as protein kinase CK2.

Gene. 2001 Sep 5;275(1):141-8.

PMID: 11574162 [PubMed - indexed for MEDLINE]

☐ 5: [Komatsu S, Hosoya H.](#) Related Articles, Links



Phosphorylation by MAPKAP kinase 2 activates Mg(2+)-ATPase activity of myosin II.

Biochem Biophys Res Commun. 1996 Jun 25;223(3):741-5.

PMID: 8687467 [PubMed - indexed for MEDLINE]

☐ 6: [Suizu F, Ueda K, Iwasaki T, Murata-Hori M, Hosoya H.](#) Related Articles, Links



Activation of actin-activated MgATPase activity of myosin II by phosphorylation with MAPK-activated protein kinase-1b (RSK-2).

J Biochem (Tokyo). 2000 Sep;128(3):435-40.

PMID: 10965042 [PubMed - indexed for MEDLINE]



















☐ 7: [Niino N, Ikebe M.](#) Related Articles, Links



Zipper-interacting protein kinase induces Ca(2+)-free smooth muscle contraction via myosin light chain phosphorylation.

J Biol Chem. 2001 Aug 3;276(31):29567-74. Epub 2001 May 30.

PMID: 11384979 [PubMed - indexed for MEDLINE]

-  **8:** [Sanders LC, Matsumura F, Bokoch GM, de Lanerolle P.](#) [Related Articles, Links](#)
 Inhibition of myosin light chain kinase by p21-activated kinase.
Science. 1999 Mar 26;283(5410):2083-5.
PMID: 10092231 [PubMed - indexed for MEDLINE]
-  **9:** [Murata-Hori M, Fukuta Y, Ueda K, Iwasaki T, Hosoya H.](#) [Related Articles, Links](#)
 HeLa ZIP kinase induces diphosphorylation of myosin II regulatory light chain and reorganization of actin filaments in nonmuscle cells.
Oncogene. 2001 Dec 13;20(57):8175-83.
PMID: 11781833 [PubMed - indexed for MEDLINE]
-  **10:** [Ueda K, Murata-Hori M, Tatsuka M, Hosoya H.](#) [Related Articles, Links](#)
 Rho-kinase contributes to diphosphorylation of myosin II regulatory light chain in nonmuscle cells.
Oncogene. 2002 Aug 29;21(38):5852-60.
PMID: 12185584 [PubMed - indexed for MEDLINE]
-  **11:** [Totsukawa G, Himi-Nakamura E, Komatsu S, Iwata K, Tezuka A, Sakai H, Yazaki K, Hosoya H.](#) [Related Articles, Links](#)
 Mitosis-specific phosphorylation of smooth muscle regulatory light chain of myosin II at Ser-1 and/or -2 and Thr-9 in sea urchin egg extract.
Cell Struct Funct. 1996 Dec;21(6):475-82.
PMID: 9078405 [PubMed - indexed for MEDLINE]
-  **12:** [Tokui T, Ando S, Ikebe M.](#) [Related Articles, Links](#)
 Autophosphorylation of smooth muscle myosin light chain kinase at its regulatory domain.
Biochemistry. 1995 Apr 18;34(15):5173-9.
PMID: 7711037 [PubMed - indexed for MEDLINE]
-  **13:** [Kishi H, Ye LH, Nakamura A, Okagaki T, Iwata A, Tanaka T, Kohama K.](#) [Related Articles, Links](#)
 Structure and function of smooth muscle myosin light chain kinase.
Adv Exp Med Biol. 1998;453:229-34.
PMID: 9889833 [PubMed - indexed for MEDLINE]
-  **14:** [Stull JT, Tansey MG, Tang DC, Word RA, Kamm KE.](#) [Related Articles, Links](#)
 Phosphorylation of myosin light chain kinase: a cellular mechanism for Ca²⁺ desensitization.
Mol Cell Biochem. 1993 Nov;127-128:229-37. Review.
PMID: 7935354 [PubMed - indexed for MEDLINE]
-  **15:** [Hosoya H, Yamashiro S, Matsumura F.](#) [Related Articles, Links](#)
 Mitosis-specific phosphorylation of myosin light chain kinase.
J Biol Chem. 1991 Nov 25;266(33):22173-8.
PMID: 1939238 [PubMed - indexed for MEDLINE]
-  **16:** [Tansey MG, Luby-Phelps K, Kamm KE, Stull JT.](#) [Related Articles, Links](#)
 Ca(2+)-dependent phosphorylation of myosin light chain kinase decreases the Ca²⁺ sensitivity of light chain phosphorylation within smooth muscle cells.
J Biol Chem. 1994 Apr 1;269(13):9912-20.
PMID: 8144585 [PubMed - indexed for MEDLINE]
[Samizo K, Okagaki T, Kohama K.](#) [Related Articles, Links](#)

	Type	Hits	Search Text	DBs
1	BRS	14	ZIP ADJ kinase	USPAT
2	BRS	0	EP911408-A2	USPAT
3	BRS	0	EP911408-A2	USOCR
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5	BRS	1	Akira-S.in. AND ZIP-kinase	USPAT; US-PGPUB; EPO; JPO; DERWENT
6	BRS	1794	Schaller	USPAT
7	BRS	26019	Schaller AND tyrosine kinase	USPAT
8	BRS	475228	Schaller AND tyrosine kinase substrate	USPAT
9	BRS	25973	Schaller ADJ tyrosine kinase	USPAT
10	BRS	0	Schaller ADJ Tks	USPAT
11	BRS	3	Schaller AND Tks	USPAT
12	BRS	30	Schaller AND Tks	USPAT
13	BRS	30	(Schaller AND Tks) AND Schaller	USPAT
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22	BRS	41	(diabled protein) ADJ src	USPAT
23	BRS	84079	(diabled protein) ADJ src domain	USPAT
24	BRS	87271	src domain	USPAT

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☐ 1: AI660136. we61a06.x1 Soares...[gi:4763706]

Links

LOCUS AI660136 597 bp mRNA linear EST 18-DEC-1999

DEFINITION we61a06.x1 Soares_thymus_NHFTh Homo sapiens cDNA clone
 IMAGE:2345554 3' similar to TR:043293 O43293 ZIP-KINASE. ;, mRNA
 sequence.

ACCESSION AI660136

VERSION AI660136.1 GI:4763706

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 597)

AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index

JOURNAL Unpublished (1997)

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.

Insert Length: 1009 Std Error: 0.00

Seq primer: -40UP from Gibco

High quality sequence stop: 455.

FEATURES

source

Location/Qualifiers

1..597

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:2345554"

/dev_stage="fetal"

/lab_host="DH10B (phage-resistant)"

/clone_lib="Soares_thymus_NHFTh"

/note="Organ: thymus, pooled; Vector: pT7T3D-Pac

(Pharmacia) with a modified polylinker; Site_1: Not I;

Site_2: Eco RI; 1st strand cDNA was primed with a Not I -
 oligo(dT) primer [5'

TGTTACCAATCTGAAGTGGGAGCGGCCCAACGTTTTTTTTTTTTTTTTTTT 3'],

double-stranded cDNA was ligated to Eco RI adaptors

(Pharmacia), digested with Not I and cloned into the Not I
 and Eco RI sites of the modified pT7T3 vector. Library

went through one round of normalization. Library

constructed by Bento Soares and M. Fatima Bonaldo. "

ORIGIN

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